CLAIMS

1. A cryogenic fluid tank comprising an inner casing (1) arranged in an outer casing (2) with a vacuum insulation space (3) in between, the casings having a flattened general configuration, characterized in that it comprises at least one tubular structure (9) which connects the two main faces (4a, 4b) of the inner casing (1) and in which there extends at least one rigid linking element (10) connecting the two main faces (5a, 5b) of the outer casing (2), and at least two flexible linking elements (15) respectively connecting a main face of the outer casing and a main face of the inner casing.

2. The tank as claimed in claim 1, characterized in that each flexible linking element (15) connects a main face of one casing to the opposed main face of the other casing.

3. The tank as claimed in either of claims 1 and 2, characterized in that the flexible linking elements (15) are mounted in tension between end swivel fittings (16).

4. The tank as claimed in one of the preceding claims, characterized in that the tubular structure (9) is integral with two end rings (8) fastened to the main faces (4a, 4b) of the inner casing (1).

5. The tank as claimed in one of the preceding claims, characterized in that the rigid linking element (10) is mounted between two cylindrical cups (12) fastened to the main faces (5a, 5b) of the outer casing (2).

6. The tank as claimed in one of claims 2 to 5, characterized in that it has a plurality of flexible

linking elements (15) angularly distributed around the rigid linking element (10).

7. The tank as claimed in one of the preceding claims, characterized in that the flexible linking elements (15) consist of strands of nonmetallic fibers.

8. The tank as claimed in one of the preceding claims, characterized in that the casings (1; 2) are metallic.

9. The tank as claimed in claim 8, characterized in that the casings (1; 2) are made of sheet metal having a thickness below 4 mm.

10. The use of a tank as claimed in one of the preceding claims for the storage of cryogenic fluid in a motor vehicle.